

BACHURIN, N.I., inzh.; VOLKOV, S.S., inzh.; GORODETSKIY, S.S., prof.,
 doktor tekhn. nauk; GUSEV, S.A., dotsent, kand. tekhn. nauk;
 ZHUKHOVITSKIY, B.Ya., dots., kand. tekhn. nauk;
 IVANOV-SMOLENSKIY, A.V., dots., kand. tekhn. nauk; KIFER,
 I.I., dots., kand. tekhn. nauk; KORYTIN, A.A., starshiy pre-
 podavatel'; KULIKOV, F.V., dots.; NIKULIN, N.V., dots., kand.
 tekhn. nauk; PODMAR'KOV, A.N., dots.; PRIVEZENTSEV, V.A., prof.,
 doktor tekhn. nauk; RUMSHINSKIY, L.A., dots., kand. fiz.-mat.
 nauk; SOBOLEV, V.D., dots., kand. tekhn. nauk; URLAPOVA, M.N.,
 inzh.; TIKHOMIROV, P.M., dots., kand. tekhn. nauk; FEDOROV,
 A.A., dots., kand. tekhn. nauk; CHUNIKHIN, A.A., dots., kand.
 tekhn. nauk; CHILIKIN, M.G., prof., glav. red.; GOLOVAN, A.T.,
 prof., red.; GRUDINSKIY, P.G., prof., red.; PETROV, G.N., prof.,
 doktor tekhn. nauk, red.; FEDOSEYEV, A.M., prof., red.; ANTIK,
 I.V., inzh., red.; BORUNOV, N.I., tekhn. red.

[Electrical engineering handbook] Elektrotekhnicheskiy spra-
 vochnik. 3., perer. i dop. izd. Pod obshchei red. A.T.
 Golovana i dr. Moskva, Gosenergoizdat. Vol.1. 1962. 732 p.

(MIRA 15:10)

1. Moskovskiy energeticheskiy institut (for Golovan, Grudinskiy,
 Petrov, Fedoseyev, Chilikin, Antik).

(Electric engineering--Handbooks, manuals, etc.)

RUSHISKIY, L.[Z.]

"Concerning Several Classes of Positive-Definite Functions," Dok. AN, 33, No. 2, 1941.

Ukr., Inst. Mathematics, Kharkov State Univ., in. A.M. Gor'kiy, -1941-.

2. The Laplace transform and positive

$$M(t) = \int_{-\infty}^{\infty} e^{it\sigma} d\sigma(u) \text{ and } F(t) = \int_{-\infty}^{\infty} e^{it\sigma} \phi(u) du$$

[illegible]

Let $\mathcal{H}_1$ and $\mathcal{H}_2$ be Hilbert spaces. We consider the problem of the reduction of the system of two classes $\mathcal{H}_1$ and $\mathcal{H}_2$. Let $\mathcal{H}_1 \oplus \mathcal{H}_2 = \mathcal{H}$, $\mathcal{H}_1 \cap \mathcal{H}_2 = \{0\}$. The following theorem is proved. Let $F(t)$ be a continuous and Hermitian $(F(t) = F^*(t))$ function defined on $[-\infty, +\infty]$. A necessary and sufficient condition that $F \in L_2$ is that

$$\exp(iL_A(F, z)) - 1 = iL_A(M; z) + o(z) \quad (\operatorname{Re}(z) > 0).$$

Rumskit, L.Z.

Let $M(t)$ and $F(t)$ be the functions defined by the estimate

$$M(t) = F(t) + \sum_{n=2}^{\infty} \frac{(-1)^{n-1}}{n!} F^{*n}(t)$$

or inversely

$$F(t) = M(t) + \sum_{n=2}^{\infty} \frac{(-1)^{n-1}}{n} M^{*n}(t).$$

A. Devinatz (St. Louis, Mo.)

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111

RUMSHISKIY, L.Z.

LEDNEV, N.A., professor; GROSHEV, A.V.; YELISTRATOVA, T.A., NIKITIN, B.D.;
PENTKOVSKIY, M.V.; PREOBRAZHENSKIY, M.A.; RUMSHISKIY, L.Z.

[Practical mathematical work on calculating machines and instruments]
Matematicheskii praktikum na schetnovychislitel'nykh priborakh i
instrumentakh. Moskva, Gos. izd-vo "Sovetskaya nauka," 1954. 365 p.
(Calculating machines) (Approximate computation) (MLRA 7:7)

RUMSHISKIY, L.Z.

"Mathematical treatment of measurements." K.P. Iakovlev. Reviewed by L.Z. Rumshiskii. Usp. mat. nauk 10 no.2:231-237 '55.
(MIRA 8:8)

(Physical measurements) (Errors, Theory of) (Iakovlev, Konstantin Pavlovich, 1885)

RUMSHISKIY, Lev Zimonovich; RYVKIN, A.Z., red.

[The slide rule] Schetnaia lineika. Izd.2., perer. Moskva, Izd-vo "Nauka," 1965. 63 p. (MIRA 18:3)

RUMSHISKIY, Lev Zimonovich; LAPKO, A.F., red.; KRYUCHKOVA, V.N.,
tekhn. red.

[Laboratory manual on computer techniques for a course in higher
mathematics for students of institutions of higher technical
education] Vychislitel'nyi laboratornyi praktikum po kursu
vysshei matematiki dlia vtuzov. Izd. 2, stereotipnoe. Moskva,
Fizmatgiz, 1963. 137 p. (MIRA 16:6)
(Electronic computers--Handbooks, manuals, etc.)

RUMSHISKIY, L.Z. (Moskva)

Practical laboratory training in calculation for the course in
higher mathematics in the technical institutions of higher learning.
Mat.pros. no.6:237-244 '61. (MIRA 15:3)

(Numerical calculations--Study and teaching)

RUMSHISKIY, Lev Zimonovich; LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn.
red.

[Laboratory computation manual for a course of higher
mathematics for institutions of higher learning] Vychi-
slitel'nyi laboratornyi praktikum po kursu vysshei matematiki
dlia vtuzov. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 137 p
(Mathematics--Study and teaching) (MIRA 14:9)

RUMSHISKIY, Lev Zimonovich; BRIN, I.A., red.; MOROZOVA, I.Ye., red.;
BRUDNO, K.F., tekhn.red.

[Elements of the theory of probability] Elementy teorii
veroiatnostei. Moskva, Gos.izd-vo fiziko-matem. lit-ry, 1960.
155 p. (MIRA 13:10)

(Probabilities)

GUSEV, S.A., inzh.; ZHUKHOVITSKIY, B.Ya., kand.tekhn.nauk; ZARIN, D.D.,
kand.tekhn.nauk; IVANOV-SMOLENSKIY, A.V., kand.tekhn.nauk;
KNYAZEVSKIY, B.A., kand.tekhn.nauk; KUZNETSOV, A.I., inzh.;
KOZIS, V.L., kand.tekhn.nauk; KORYTIN, A.A., inzh.; LASHKOV,
F.P., inzh.; L'VOV, Ye.L., kand.tekhn.nauk; MELESHKINA, L.P.,
kand.tekhn.nauk; NEKRASOVA, N.M., kand.tekhn.nauk; NIKULIN,
N.V., kand.tekhn.nauk; POLEVOY, V.A., kand.tekhnicheskikh
nauk; RAZEVIK, D.V., kand.tekhn.nauk; ROZANOV, G.M., kand.tekhn.
nauk; RUMSHISKIY, L.Z., kand.fiz.-matem.nauk; SVISTOV, N.K.,
kand.tekhn.nauk; SIROTINSKIY, Ye.L., kand.tekhn.nauk; SOKOLOV,
M.M., kand.tekhn.nauk; TALITSKIY, A.V., prof.; TREMBACH, V.V.,
inzh.; FEDOROV, A.A., kand.tekhn.nauk; GRUDINSKIY, P.G., prof.;
PRYTKOV, V.T., kand.tekhn.nauk; CHILIKIN, M.G., prof., glavnyy
red.; GOLOVAN, A.T., prof.; red.; PETROV, G.N., prof., red.;
FEDOSEYEV, A.M., prof., red.; ANTIK, I.V., red.; SKVORTSOV, I.M.,
tekhn.red.

[Handbook for electric engineering] Elektrotekhnicheskii spravochnik. Moskva, Gos.energ.izd-vo, 1952. 640 p. (MIRA 13:2)

1. Prepodavateli Moskovskogo energeticheskogo instituta imeni V.M. Molotova (for all except Antik, Skvortsov).
(Electric engineering)

RUMSHISKIY, L.Z.

Use of a check formula in numerical integration of second-order differential equations. Trudy MEI no.42:187-190 '62.
(MIRA 16:7)

(Differential equations)

RUMSHITSKIY, T. A.

The "Kometa" duster. Zashch. rast. ot vred. i bol. 6 no.6:
17-19 '61. (MIRA 16:4)

1. Starshiy inzh. Yuzhno-Ukrainskoy mashinostpyatel'skoy
stantsii, Kherson.

(Spraying and dusting equipment)

RUMVOL'T, Kh.

Graphic determination of the number of journeys. Avt. transp.
43 no.4:17-18 Ap '65. (MIRA 18:5)

1. Zamestitel' direktora 5-y avtobazy, gorod Pyl'tsamaa [Poltsamaa],
Estonskaya SSR.

RUMYANOV, M.V.

Compressionless paint sprayer [Suggested by M.V. Rumianov].
Rats. i izobr. predl. v stroi. no.6:53-56 '58. (MIRA 11:10)
(Spray painting--Equipment and supplies)

RUMYANOV, M.V., instruktor peredovykh metodov truda.

My experience in mechanizing painting work. Mekh.stroi. 13 no.5:
3-6 My '56. (MLRA 9:8)

(Painting, Industrial)

RUMYANOV, M.V.

Automatic release valve for mortar pumps. Rats. i izobr.
predl. v stroi. no.86:9-10 '54. (MLRA 8:8)
(Plastering) (Pumping machinery)

RUMYANOV, Mikhail Vasil'yevich; DEMISOV, N.A., inzhener, redaktor;
KRYUGER, Yu.V., redaktor; VOLKOV, V.S., tekhnicheskiiy redaktor

[Complex mechanization of painting work] Opyt kompleksnoi
mekhanizatsii maliarnykh rabot. Moskva, Gos.izd-vo lit-ry
po stroitel'stvu i arkhitekture, 1955. 49 p. (MIRA 9:3)
(Paint machinery)

RUMYANOV, M.V.

Mobile painting unit. [Suggested by M.B. Rumianov.] Rats. i izobr.
predl. v stroi. no. 144:3-9 '56. (MLRA 10:2)
(Painting, Industrial)

RUMYANOV, M.V.

Automatic blow valve for the UR-1 painting machine. [Suggested by
M.V.Rumianov.] Rats.i izobr.predl.v stroi. no.144:10-12 '56.
(Painting, Industrial) (MLRA 10:2)

RUMYANOV

M. V.
RUMYANOV, Mikhail Vasil'yevich; KONASHEVSKII, V.L., nauchnyy redaktor;
SHVETSOV, I.B., redaktor; ISLENT'EVA, P.G., tekhnicheskiiy redaktor.

[My experience with the over-all mechanization of house painting]
Moi opyt kompleksnoi mekhanizatsii maliarnykh rabot. Moskva, Izd-
vo "Znanie," 1954. 30 p. (Vsesoiuznoe obshchestvo po rasprostra-
neniiu politicheskikh i nauchnykh znani, Ser. 4, no. 21)(MLRA 7:9)
(Spray painting)

RUMYANTSEV, A. (Novosibirsk)

Magnetic tape recorder and dictaphone combination. Radio no.5:
42 My '65. (MIRA 18:5)

RUMYANTSEV, A., red.; MAKAROV, V., red.; DARONYAN, M., mladshiy red.;
MOSKVINA, R., tekhn.red.

[The "Common Market" and the laboring class: materials on the exchange of opinions among Marxists from several countries on theoretical questions connected with the "integration" of Western Europe, an exchange which took place at the editor's office of the journal "Problemy mira i sotsializma,"

(MIRA 13:11)

(European common market)
(Europe, Western--Labor and laboring classes)

RUMYANTSEV, A.

Efficient loading of materials. Sel'.stroi. 15 no.5:23
My '60. (MIRA 13:8)

1. Direktor sovkhoza "Rossiya" Kytmanovskogo rayona Altayskogo
kraya.

(Loading and unloading)

RUMYANTSEV, A.

The steering wheel is in reliable hands. Avt.transp. 37 no.3:53
Mr '59. (MIRA 12:4)

1. Nachal'nik garazha Smolenskogo avtokhozyaystva.
(Automobile drivers)

KANATCHIKOV, A.; RUMYANTSEV, A.; YARYGIN, A.

Industrial wages for assembly-line work. Sots. trud 6 no.11:69-
75 N '61. (MIRA 14:11)

(Leningrad--Assembly line methods)

(Leningrad--Wage payment systems)

RUMYANTSEV, ANDRYUSHA

KRIVCHENKOVA, Lyusya; TYURINA, Lara; KOSTIKOVA, Lida; KOSAREVA, Lida;

RUMYANTSEV, Andryusha; CHIZHIKOVA, Lida; GOLEN'SHIN, Petya

Blooming gladioli in May. IUn. nat. no.5:11 My '58. (MIRA 11:5)

1.Shkola No.538, Moskva.

(Gladiolus)

RUMYANTSEV, A.

Activity of motor-vehicle repair plants of the Moscow Executive
Committee. Avt. transp. 41 no.3:35-38 Mr '63.
(MIRA 16:4)

1. Glavnyy inzh. Upravleniya avtoremontnykh zavodov i avto-
snabzheniya Ispolnitel'nogo komiteta Moskovskogo gorodskogo
soveta deputatov trudyashchikhsya.

(Moscow—Motor vehicles--Maintenance and repair)

RUMYANTSEV, A.

Wide cutting. Izobr. i rats. no.11:39 '63. (MIRA 16:12)

1. Chlen prezidiuma Pavlodarskogo oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov.

10/11/55
RUMYANTSEV, A.

Technical progress is the basis for steady growth in labor productivity. Sov.profsoiuzy 3 no.7:13-20 J1'55. (MIRA 8:10)
(Labor productivity) (Technology)

L 6346-66 EWT(1)/ETC/EPF(n)-2/EPA(w)-2/EWG(m) IJP(c) GG/AT/GW

ACC NR: AP5025616

SOURCE CODE: UR/0033/65/042/005/0981/0985

AUTHOR: Rumyantsev, A. A.

ORG: Leningrad Polytechnic Institute im. M. I. Kalinina (Leningradskiy politehnicheskii institut)

TITLE: The acceleration of charged particles by "decelerating" quanta

SOURCE: Astronomicheskii zhurnal, v. 42, no. 5, 1965, 981-985

TOPIC TAGS: particle acceleration, quantum theory, plasma radiation, supernova

ABSTRACT: The possibility of acceleration of plasma particles in a magnetic field or with a dielectric constant >1 as a result of Cerenkov absorption of radiation quanta and acceleration with Compton scattering of electrons has already been shown. In continuing this line of investigation the mechanism of acceleration with "decelerating" absorption of quanta is considered. The problem is as follows: If a flux of radiation passes through a layer of plasma with the electron concentration n_e and an optical thickness of scattering and absorption $\tau < 1$ the flux changes little in the layer but the electrons scattering and the photons absorbing radiation

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UDC: 523.165

L 6346-66
ACC NR: AP5025616

are accelerated and entrained in the field of nuclei due to collisions and the electrical field of the nucleus so that the entire plasma layer is accelerated. Such a situation apparently arises in the explosion of a supernova. The formulas show that the radiation flux arising at the time of such an explosion is sufficient to impart an energy of the order of magnitude of their rest mass to the nuclei of the outer layer of a star in which $\tau < 1$. Specifically, when the photon concentration is less than the electron concentration in the layer the "decelerating" absorption mechanism is more effective than the Compton mechanism. The Compton mechanism will become operative with increasing rarefaction of the gas in the layer during its expansion. Plasma of a nonrelativistic temperature is considered, although the temperature is sufficiently high that the Born approximation will be correct; in any case the plasma situated in the radiation flux will be heated quite rapidly to such a temperature. The general relations are followed by special consideration of acceleration of soft and hard quanta, and degeneration. "In conclusion I thank L. E. Gurevich for proposal of the topic and discussion." Orig. art. has: 17 formulas. 44, 55

SUB CODE: AS,ME/

SUBM DATE: 17Dec64/

ORIG REF: 006/

OTH REF: 000

nw

Card 2/2

MATVEYEV, Vasil'y Fedorovich, slesar'-novator; RUMYANTSEV, A.A.,
red.; TELYASHOV, R.Kh., red.izd-va; BELOGUROVA, I.A.,
tekhn. red.

[Semiautomatic machine for manufacturing springs and laying
them in terminal blocks. Automatic machine for thread cutting
in a terminal bridge] Poluavtomat dlia izgotovleniia pruzhin
s ukladkoi ikh v klemmnye kolodki. Avtomat dlia narezki rez'by
v klemmnom mostike. Leningrad, 1963. 11 p. (Leningradskii
dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom
Seria: Pribory i elementy avtomatiki, no.1) (MIRA 16:9)
(Machine tools)

GOREVICH, L.E.; RUMYANTSEV, A.A.

Acceleration of charged particles by a radiation flux. Zhur. eksp.
i teor. fiz. 47 no.5:1829-1831 M 1964.

(MIRA 18:2)

1. Fiziko-tekhnicheskiy institut imeni Lofe AN SSSR.

RUSSIAN S.S.S.R.

Acceleration of charged particles by "breaking" quanta. Astron.zhur.
42 no.5:981-985 S-O '65. (MIRA 18:10)

1. Leningradskiy politekhnicheskoy institut im. M.I.Kalinina.

RUMYANTSEV, Aleksey Alekseyevich; KON'KOV, A.S., dots., retsenzents;
MYSHKOVSKIY, V.A., inzh., red.; DUGINA, N.A., tekhn. red.

[Increasing labor productivity in drop forging operations]
Povyshenie proizvoditel'nosti truda v kuznechno-shtampovom
proizvodstve. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1961. 95 p. (MIRA 15:1)

(Forging)

L 16100-65 EWT(1)/EWG(k)/EWT(m)/EPA(sp)-2/EPA(w)-2/EEC(t)/T/ELC(b)-2/
 EPA(m)-2 Pz-6/Po-4/Pab-10/Pt-10/Pi-4 IJP(c)/ESD(gs)/ESD(t)/AEDC(b)/SSD/
 SSD/AFWL/ASD(a)-5/ASD(p)-3 AT
 ACCESSION NR: AP5000340 S/0056/64/047/005/1829/1831,

AUTHORS: Gurevich, L. E.; Rumyantsev, A. A.

TITLE: Acceleration of charged particles by a radiation flux

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47,
 no. 5, 1964, 1829-1831

TOPIC TAGS: charged particle acceleration, plasma acceleration,
 Compton scattering, electron photon scattering

ABSTRACT: The acceleration of charged particles by a radiation flux, resulting from the Compton scattering of the photons of the flux by the electrons, is discussed. In this mechanism the electrons scatter the photons multiply and are dragged by the photons. Since the electrons transfer momenta to the nuclei either by collision or via the electric field, they can accelerate in this manner an entire plasma layer (for example, the outer layer of a star). An

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ACCESSION NR: AP5000340

equation is derived for the rate of change of momentum produced by a spherically symmetrical radiation flux incident from the outside on a spherical plasma layer. The equation is solved for the case of a very thin layer. It is shown that the nuclei can acquire an energy on the order of their rest energy by this mechanism, at radiation fluxes that can be realized in nature in the case of supernova explosions. It is also shown that in the presence of a magnetic field the accelerated particles will remain localized near the star and this process can serve as a mechanism for injection of fast electrons and nuclei. Orig. art. has: 4 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences SSSR)

SUBMITTED: 05May64

ENCL: 00

SUB CODE: NP, ME

NR REF SOV: 003

OTHER: 000

Card 2/2

MATVEYEV, Vasiliy Fedorovich; RUMYANTSEV, A.A., red.; TELYASHOV,
R.Kh., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Semiautomatic devices for the removal of film and fins from
parts made of plastics] Poluavtomaty dlia sniatia obloia s
detalei, izgotovlennykh iz plasticheskikh mass. Leningrad,
1962. 13 p. (Leningradskii dom nauchno-tekhnikheskoi pro-
pagandy. Obmen peredovym opytom. Seriia: Pribory i elementy
avtomatiki, no.15) (MIRA 16:2)
(Plastics industry--Equipment and supplies)

KOROBENNIKOV, Ivan Nefedovich; LUTRIKH, German Oskarovich; RUMYANTSEV,
A.A., red.; TELYASHOV, R.Kh., red.izd-va; GVIRTS, V.L., tekhn.
red.

[Mechanization and automation practices in factories engaged
in assembling television receivers with printed circuit
components] Zavodskoi opyt mekhanizatsii i avtomatizatsii pro-
tssessov montazha i sborki televizorov na pechatnykh platakh.
Leningrad, 1962. 17 p. (Leningradskii dom nauchno-tekhnicheskoi
propagandy. Obmen peredovym opytom. Seriya: Pribory i
elementy avtomatiki, no.16) (MIRA 16:3)
(Television) (Printed circuits)

RUMYANTSEV, A.A.

Calculating scheduled requirement of fastenings. Vest. mashinostr.
44 no.9:78-79 S '64. (MIRA 17:11)

RUMYANTSEVA, A.A. (Kazan', ul. Kaybysheva, d.7, kv.95)

Experience in resection of the hip joint using a pedicle graft.
Ortop. travm. i protez. 24 no.6:64-66 Je'63 (MIRA 16:12)

1. Iz kafedry ortopedii i travmatologii (zav. - prof. L.I. Shulutko) Kazanskogo instituta usovershenstvovaniya vrachey na baze Instituta travmatologii i ortopedii (dir. - kand. med. nauk U.Ya. Bogdanovich).

RUMYANTSEV, A.A., mekhanik defektoskopa

Improved URD-58 rail flow detector. Put' i put. khoz. 7 no.5:
37-38 '63. (MIRA 16:7)

1. Stantsiya Sumy, Yuzhnoy dorogi.
(Railroads--Rails---Testing)

PLAKHOV, I.I.; RUMYANTSEV, A.D.

Paper pulp composition regulator. Bum.prom. 37 no.3:28-29 Mr '62.
(MIRA 15:3)

1. Zamestitel' direktora Svetogorskogo tsellyulozno-bumazhnogo
kombinata (for Plakhov). 2. Zamestitel' glavnogo konstruktora
Svetogorskogo tsellyulozno-bumazhnogo kombinata (for Rummyantsev).
(Svetogorsk---Papermaking machinery)

PODSHIVALENKO, P.D.; BALIKHIN, M.I.; BASHINSKIY, S.V.[deceased];
IVANOV, N.A.; KACHALOV, N.N.; NEMKOV, G.P.; ONUFRIYEV,
I.A.; PERESLEGIN, V.I.; RUMYANTSEV, A.E.; RUSAKOV, A.N.;
SEMENOV, I.Ya.; STOMAKHIN, I.B.; FILIPPOV, V.F.;

[Economics of construction; a textbook] Ekonomika stroitel'-
stva; uchebnik. Moskva, Politizdat, 1964. 542 p.

(MIRA 18:8)

1. Kommunisticheskaya Partiya Sovetskogo Soyuza. Vysshaya
partiynaya shkola.

ACC NR: AP7005326

SOURCE CODE: UR/0181/67/009/001/0075/0078

AUTHOR: Gurevich, L. E.; Rumyantsev, A. A.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tehnicheskii institut AN SSSR)

TITLE: Theory of the optoelectric effect in organic crystals at high frequencies and in the presence of an external magnetic field

SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 75-78

TOPIC TAGS: ~~optoelectric effect~~, organic crystal, electron recombination, physical diffusion, light absorption, phonon scattering, electron scattering, Hall effect, *ELECTROOPTIC EFFECT, EXTERNAL MAGNETIC FIELD*

ABSTRACT: The optoelectric effect is defined as the field produced when an electromagnetic wave propagates in a medium with free carriers; this field is constant and parallel to the propagation direction. It was considered earlier by H. E. Barlow (Proc. IRE v. 46, 1411, 1958), but he took no account of the diffusion currents of the carriers or of the finite rate of their recombination. Solution of the diffusion equations shows that carrier diffusion and recombination play an important role in organic crystals. A study is also made of the influence of absorption of light in the crystal, which leads in all cases to a decrease of the optoelectric effect. The optoelectric coefficient is calculated at frequencies lower than the relaxation frequency, and at higher frequencies in the case of electron scattering by phonons. The frequency dependence of the effect is estimated for the case of scattering by ionized

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UDC: none

ACC NR: AP7005326

impurities. If an external weak magnetic field parallel to the wave of propagation direction is superimposed on the optoelectric field, another constant field is produced, perpendicular to the wave-propagation direction and to the external magnetic field. The relation between the optoelectric effect and the Hall effect is discussed. Orig. art. has: 9 formulas. [02]

SUB CODE: 20/ SUBM DATE: 14May66/ ORIG REF: 001/ OTH REF: 001
ATD PRESS: 5116

Card 2/2

RUMYANTSEV, A.F.

[Labor productivity in U.S.S.R. industry and methods of increasing
it] Proizvoditel'nost' truda v promyshlennosti SSSR i puti ee po-
vysheniia. Moskva, 1953. 29 p. (MLRA 7:6)
(Efficiency, Industrial)

FEDOSEYEV, K.A.; RUMYANTSEV, A.F., red.

[Working capital of socialist industry and ways to speed up its turnover] Oborotnye sredstva sotsialisticheskoi promyshlennosti i puti uskoreniia ikh oborachivaemosti. Moskva, Vysshiaia partiinaia shkola pri TsK KPSS, 1953. 38 p.
(Finance) (MIRA 13:8)

BUKANTSEV, A. F.

Povyshenie proizvoditel'nosti truda i vnedrenie peredovogo opyta promyshlennosti
SSSR /Increasing labor productivity and introducing progressive methods to
U.S.S.R. industry/. Moskva, Gospolitizdat, 1953. 71 p.

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[Circulating capital in Soviet industry and its use] Oborotnye
fondy sovetskoi promyshlennosti i ikh ispol'zovanie. Moskva,
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RMYANTSEV, A. F.

A. F. Rumyantsev, Povysheniye proizvoditel'nosti truda i vnedreniye peredovogo opyta v promyshlennosti SSSR / The Increase in Labor Productivity and Introduction of Advanced Experience into USSR Industry, Gospolitizdat, 4 sheets - 1953

This brochure discusses the following topics: significance of the rise in labor productivity in communist construction; significance of the introduction of advanced technology and the improvement in the organization of production for the rise in labor productivity; raising the cultural and technical level of cadres as the most important condition for further increase in labor productivity; and the role of the introduction of advanced production experience in the increase of labor productivity is also elucidated. The role of the creative friendly association between workers in science and industry in the struggle to increase labor productivity is briefly touched on.

Intended for the broad circles of party-economic activists, students at party schools, students, and propagandists.

SO: U-6472, 12 Nov 1954

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7399. RUMYANTSEV, A. F. Vsemernoye povysheniye proizvoditel'nosti truda -- vazhneyshaya narodnokhoz-yaystvennaya zadacha. M., "Znaniye", 1954. 40s. 22sm. (Vsesoyuz. 0-vo po rasprostraneniyu polit. I nauch. znaniy. seriya 2. No. 50). 148.000 EKZ. 60k.-- (55-4198) p 331-87 (47)

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(In accordance with instructions of the Twentieth Congress of the Communist Party) Moskva, Gospolitizdat, 1956.

22 Folders. Illus., Graphs, Tables.

At head of Title: Naglyadnyye Posoviya v Pomoshch' Propagandistam I Agitatoram.

RUMYANTSEV, A. F.

22(1)

PHASE I BOOK EXPLOITATION

SOV/2662

Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola

Programma kursa "Ekonomika, organizatsiya i planirovaniye pred-priyatiy promyshlennosti, stroitel'stva i transporta" dlya vysshikh partiynykh shkol (Program of the Course "Economics, Organization, and Planning of Industrial Enterprises, Building, and Transportation" for Higher Party Schools) Moscow, 1958. 23 p. 16,500 copies printed.

Ed.: A.F. Rumyantsev.

PURPOSE: This syllabus is intended for students in higher Party schools.

COVERAGE: The syllabus presents a list of lectures and practical exercises for a course in Economics, Organization, and Planning of Industrial Establishments, Construction, and Transportation. It covers such topics as the use by the Soviet state of "objective" laws of socialism in managing the national economy and the

Card 1/3

Program of (Cont.)

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study of the economic policy of the Communist Party and the Soviet state at present. The syllabus is divided into three parts. Part I (Industry) deals with: organization of industrial management, specialization and cooperation of industrial establishments, progressive methods of production organization, planning of industrial production, working assets, material and technical supply of industry establishments, setting of work standards, labor productivity, wages, production costs and profitability of industrial establishments, cost accounting, finance, and analysis of production and economic activities.

Part II (Construction) covers organization of capital construction and its planning, labor productivity and ways of increasing it, setting of work standards, wages, cost of construction and installation work and ways of lowering it, profitability of construction organizations, and finance and analysis of economic activities of construction organizations. Part III (Transportation and Communications) discusses organization and planning of transportation; railroad, water, automotive, and air transportation and their cost; and development of communications in the USSR.

No personalities are mentioned. There are 49 Soviet references.

Card 2/3

Program of (Cont.)

SOV/2662

TABLE OF CONTENTS: None

AVAILABLE: Library of Congress (HD 70 .R9K556)

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[Program in the economics of socialist industrial enterprises, for evening universities of Marxism-Leninism, schools of economics, study groups and seminars in the party's educational system, as well as for self-instruction in the economics of socialist industrial enterprises] Programma po ekonomike sotsialisticheskikh promyshlennykh predpriatii dlia vecharnikh universitetov marksizma-leninizma, ekonomicheskikh shkol, kruzhek i seminarov seti partiinogo prosveshcheniia, a takzhe dlia samostoiatel'no izuchaiushchikh ekonomiku sotsialisticheskikh promyshlennykh predpriatii. Moskva, 1958. 22 p.

(MIRA 11:12)

1. Kommunisticheskaya partiya Sovetskogo Soyuza.

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[Program of the course "Economics, organization and planning of enterprises engaged in industry, construction, and transportation" for the party's advanced schools] Programma kursa "Ekonomika, organizatsiia i planirovanie predpriatii promyshlennosti, stroitel'stva i transporta" dlia vysshikh partiinykh shkol. Moskva, 1958. 23 p. (MIRA 12:3)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola.

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[Financial system under the new conditions of administering
the economy] Finansovaya sistema v novykh usloviakh upravleniia
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KACHALOV, N.N.; NEMKOV, G.P.; ONUFRIYEV, I.A.; PERESLEGIN, V.I.;
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Title : Automatization on waterways

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Abstract : An explanation is given of the working of various systems of locks and beacons in different parts of the Soviet Union, including the electrical equipment that controls and powers them. In some of these locks the water is moved from a lower to a higher level by pumping, thus guaranteeing an adequate supply. Illustrations.

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